

Mission Innovation “Hydrogen Valleys” workshop

Main take-aways from Day 1



European Commission



**MISSION
INNOVATION**

accelerating the clean energy revolution

Leveraging partnerships

Strong partners for the industrialisation of the fuel cell and hydrogen technology

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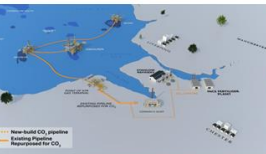
Partners

- **Cooperation, coordination & commitment** of various types of actors and at different levels (local/regional/national/supranational etc.) are key success-factors for "H2 Valleys"
- Engaging local population is particularly important

HyNet Delivery: Partnerships

CCS infrastructure

H₂ supply & distribution infrastructure



Port of Antwerp hydrogen economy lighthouse projects

Power-to-Methanol demonstrator



ZEV: A large number of stakeholders have supported the project under the impulse of the AURA Region



Promotors and financing

Some companies involved

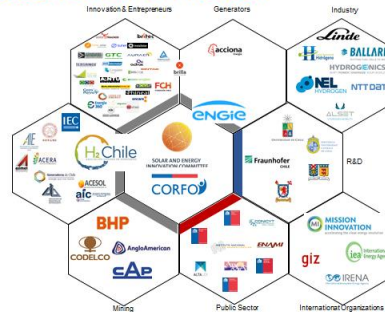
- [BioMCN](#)
- [Engie](#)
- [EMMTEC](#)
- [Gasunie](#)
- [NAM](#)
- [Nouryon](#)
- [Nuon](#)
- [Shell](#)
- [Qbuzz](#)

Public partners

- Provinces: [Drenthe](#), [Fryslân](#), [Groningen](#)
- Municipalities: [Emmen](#) and [Groningen](#)
- Support by Ministry of Economic Affairs and Climate and [RVO](#) (Netherlands Enterprise Agency)
- Proposal preparation: New Energy Coalition



ECOSYSTEM APPROACH



Public support

Ministère de l'environnement
Dépense des Dépôts
Région de la Région AURA
la Métropole de Lyon
Région Alpes Métropole
Métropole Auvérgne Métropole
Saint Etienne Métropole
Communauté d'agglomération
Chambéry Métropole
Communauté de communes
Francois Mont Blanc
Communauté d'agglomération
Valence Romans Agglo
Communauté d'agglomération
Montclair Agglomération

ACOPREV
Association communale production
énergie verte Canton de Die
Vionj Communauté
République Et Canton De Genève
Ville d'Aoste
Ville de Turin
Syndicat du Pays de Maurienne
Anney
Communauté de communes Bière
Est (engagement pour le Grand
Lemps et Aorigny)
Communauté de Communes du
Pays Roussillonnais

Industry

CDIR Chambre de Commerce et
D'Industrie Régionale AURA
GRTOAZ
MIGOSP
CNV projet de lettre
AVELERA Pôle compétitive
LUTE
Teneros
SERFILM Groupe (travaux Publics)
Construit des stations
RTE
ENGIE
Michelin
Shell

"Seeing is believing"

We need "**early movers**":

Emerging blueprint "H2 Valley" projects are crucial to start showing tangible benefits of hydrogen and to promote the understanding of its unique role in the broader integrated energy-system context (incl. to decision-makers)

Seeing is believing...

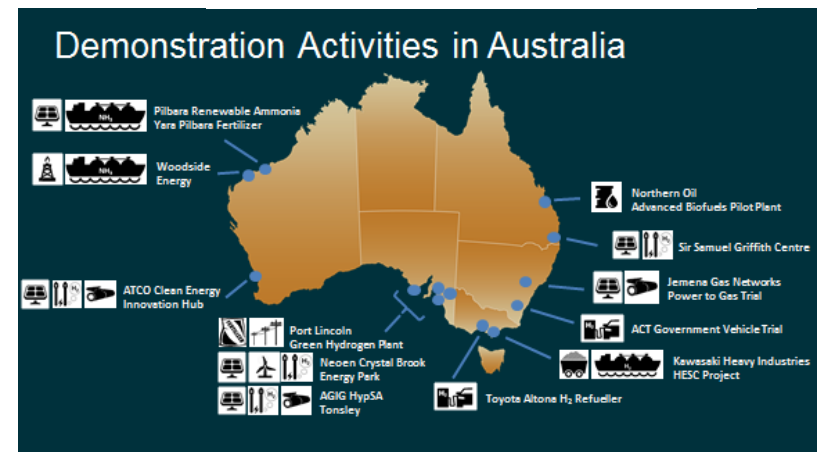


7 June, 2019 (excursion during WHTC 2019) Limited!!



No "one size fits all" but we can draw conclusions and build on the existing knowledge


- Info-sharing is crucial for replicability: Although projects are very specific to local circumstances, there is room for exchange of experiences, best practises and learning from each other. New projects should not have to "reinvent the wheel".
- Potential areas of interest to exchange information include business models, regulatory obstacles, lifecycle assessment, permitting and certification, standards, technology assessments, existing and planned R&D activities in focus areas of IC#8 (incl. major events) etc.



Unlocking deployment at scale

- **Financing** and **risk-allocation** will also have to be addressed to secure private investments, most likely best handled at (supra)national level through policies and support schemes → focus area for CEM?

HYDROGEN DEPLOYMENT FRAMEWORK MATRIX

THEMES	CLEAN HYDROGEN TO MARKETS	UPSTREAM SUPPLY CHAIN	TRANSPORT	TOPIC DEVELOPMENT APPROACH
 SUPPORTING SCHEMES	Policies / Contract For Difference / CO2 Price	Large demonstration schemes	Policies & guarantee mechanisms	Public / private workshops - <i>Hydrogen Council lead</i>

And if it doesn't work...

We do it the Italian way 😊



Thank you All for active participation on Day 1!